How to Use Your Cobra 25 NW ST

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Features of This Product

- 40 CB Radio Channels
- SoundTracker[™]System
- Heavy-Duty Dynamic Microphone
- Full 4 Watts AM RF Power Output
- Instant Channel 19 and 9
- Front Panel 4-Pin Microphone Connector
- · Switchable Noise Blanker
- Switchable Automatic Noise Limiter
- Adjustable Dynamike Boost
- Tactile Controls
- Illuminated Front Panel
- Dimmer Control
- RF Gain
- 9 ft. mic cord



Location

Location

Plan location of transceiver and microphone bracket before starting the installation.

Select a location that is convenient for operation, yet does not interfere with the driver or passenger.

The transceiver is usually mounted to the underside of the dash with the microphone bracket beside it.

Mounting and Connection

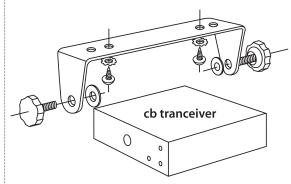
Note

The transceiver is held in the universal mounting bracket by two thumbscrews which allow for adjustment at a convenient angle.

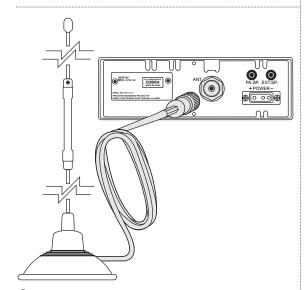
The bracket includes two selftapping screws and star washers. The mounting must be mechanically strong, conveniently located.

Mounting and Connection

• Hold the radio with the mounting bracket in the exact desired location. If there is no interference, remove the bracket and use it as a template to mark the location for the mounting screws.



2 Drill the holes and secure the bracket.



3 Connect the antenna cable plug to the receptacle marked "ANT" on the back of the unit.

continued

Note

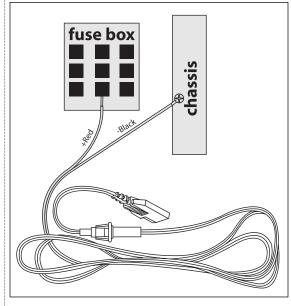
Before installing the CB radio, visually check the vehicle's battery connection to determine which terminal, positive or negative, is grounded (positive is the larger of the two) to the engine block (or chassis). A negatively grounded vehicle has its negative lead grounded to the chassis.

Note

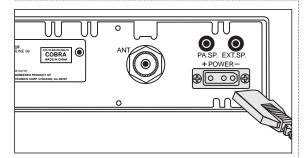
Connecting to an accessory fuse prevents the unit from being left on accidentally, and also permits operating the unit without running the engine.

Note

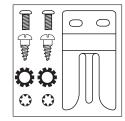
In positive ground vehicles the red wire goes to the chassis and the black wire is connected to the ignition switch.

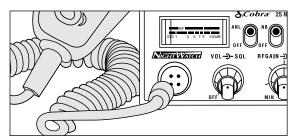


- In a negative grounded vehicle, connect the red lead of the DC power cord to an accessory 12 volt fuse.
- Connect the black lead to the negative side of the vehicle. This is usually the chassis. Any convenient location with a good electrical contact (remove paint) may be used.



- Plug power cable into back of unit marked "Power". Be sure to observe polarity markings.
- Mount the microphone bracket on the right side of the unit (driver's left) using two screws supplied. Bracket should be placed under the dash so microphone is readily accessible.





Attach the 4-pin microphone cable to receptacle on front of unit and Install unit in bracket securely.

Ignition Noise Interference

CB Antenna

Note

For optimum performance in passenger cars the ideal antenna location is on the center of the roof. Second choice is on the center of the trunk.

Note

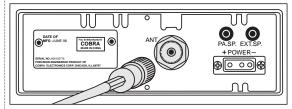
Because many newer trucks feature fiberglass door skins, the outside mirror must be grounded to the chassis via a ground strap, if the antenna is mounted on the mirror bracket.

Note

3-way Combination Antennas are also available which allow operation of all three bands (AM-FM & CB), using a single antenna. However, this type of antenna usually results in less than normal transmit and receive range when compared to a standard-type "Single Band" CB antenna.

CB Antenna

Since the maximum allowable power output of the transmitter is limited by the IC/FCC, the antenna is critical in affecting transmission distance. Only a properly matched antenna system will allow maximum power output. Cobra loaded type antenna models are highly recommended for most installations. Consult your Cobra dealer for further details.



 A standard antenna connector is provided on the transceiver for easy connection.

Marine Installation

The transceiver will not operate at maximum efficiency in a boat without a ground plate, (unless it has a steel hull). Before attempting installation, consult your dealer for information regarding an adequate grounding system and prevention of electrolysis between fittings in the hull and water.

Use of a mobile receiver at low signal levels is normally limited by the presence of electrical noise. The primary source of noise in automobiles is from the alternator and ignition system. Typically, when signal level is adequate, the background noise does not present a serious problem. Also, when extremely low level signals are being received, the transceiver may be operated with the vehicle's engine turned off. The unit requires very little current and therefore will not significantly discharge the vehicle's battery.

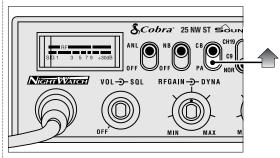
Even though the Cobra 25 NW ST has an automatic noise limiter, in some installations ignition interference may be high enough to make good communications impossible. Many possibilities exist and variations between vehicles require different solutions. Consult your COBRA dealer or a 2-way radio technician for help in locating the source of a severe noise.

Operation

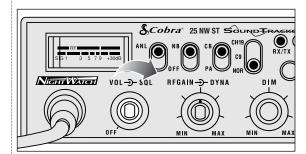
Turning On

Turning On

Make sure the power cord, antenna and microphone are connected to their proper connectors before starting.

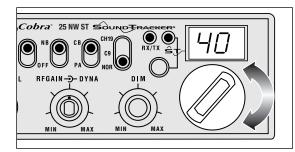


• The © CB/PA button should be in the CB position.



2 Rotate the On/Off Volume knob @ clockwise to a normal listening level.

Setting Channel Selector



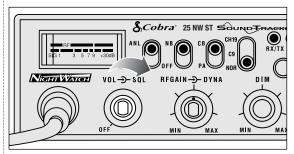
• Select one of forty channels and adjust volume. The selected channel is indicated by the LED readout directly above the channel selector knob

Setting Channel Selector

Operation

To Receive

To Receive



Rotate the On/Off Volume knob clockwise the green RT/TX LED will be illiuminated.

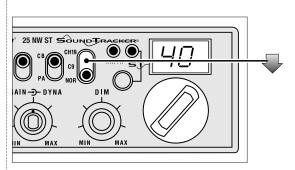
Selecting A Channel

Note

Switch to 9 (Emergency) or 19 (Information) for instant access to these channels.

Selecting A

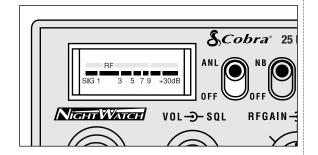
Channel



• Switch to NOR to select desired channel.

S-Meter

Swings proportionately to strength of incoming signal when receiving.



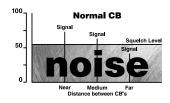
S-Meter

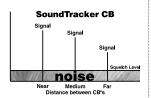
Operation



Note

SoundTracker $^{\text{TM}}$ gives you clearer, cleaner reception to improve CB communications while on the air.





The SoundTracker™ System

While previous systems only "blanket out" or limit noise in higher sound frequencies, the revolutionary new SoundTrackerTM System actually reduces noise while leaving the signal intact in the reception mode. In the transmission mode, it actually strengthens the signal, providing you with a significant reduction in noise on reception and transmission.

Sound clarity is measured by the ratio of the signal level to the noise level. The higher the signal-to-noise ratio, the better the sound.

How SoundTracker™ Works

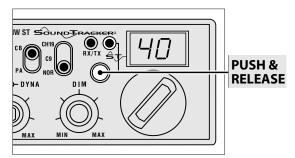
On Reception - "Cuts noise coming in"

With a normal CB, distant signals fall below the squelch level and are unintelligible. With a SoundTracker™ CB, the noise level is cut up to 90%, which increases the signal-to-noise ratio and dramatically improves signal clarity. This also allows you to significantly reduce the squelch level, which greatly expands your listening range.

On Transmission - "Strengthens signals going out"

A SoundTracker[™] CB strengthens the transmit signal by more effectively using the available RF power output of the CB. The result is improved transmission signal clarity and an expanded transmission range.

Activating SoundTracker™



Push and release the ST button. Red LED is illuminated when SoundTracker™ is turned on.

Activating SoundTracker™

Operation

Dimmer Control

Note

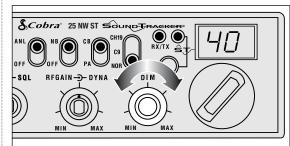
The Dim controls the brightness of the front panel, signal strength meter and channel display.

RF Gain Control

Note

The RF Gain is used to optimize reception in weak signal areas.

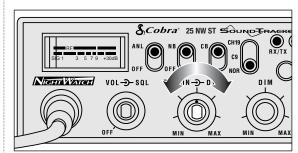
Dimmer Control



Rotate the DIM knob clockwise for maximum brightness; counter-clockwise for minimum.

RF Gain Control

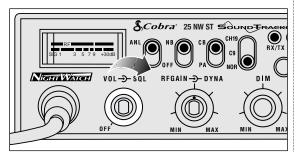
The RF Gain is used to optimize reception in strong or weak signal areas.



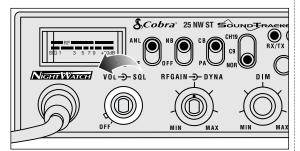
• Rotate the ® RF Gain knob counterclockwise to reduce gain in strong signal areas. In weak signal areas turn clockwise to increase gain.

Setting Squelch

Squelch is the "control gate" for incoming signals.



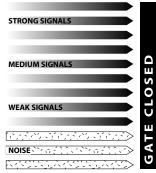
• Full © clockwise rotation closes the gate allowing only very strong signals to enter.



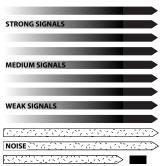
2 Full counterclockwise rotation opens the "gate" allowing all signals in.

Setting Squelch

Gate closed



Gate open



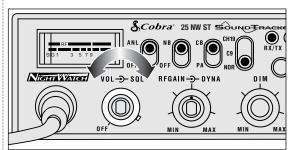
GATE OPEN

Gate set to Desired Squelch Setting (DSS)

MEDIUM SIGNALS

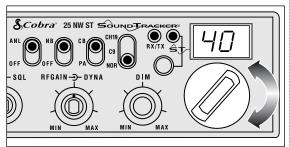
WEAK SIGNALS

NOISE



3 To achieve the Desired Squelch Setting (DSS), turn the Squelch control © counterclockwise until you hear noise. Now turn the control clockwise just until the noise stops. This is the DSS setting.

To Transmit



Select desired channel.

To Transmit

STO

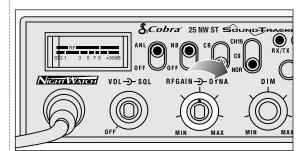
Caution!

Be sure the antenna is properly connected to the radio before transmitting. Prolonged transmitting without an antenna, or a poorly matched antenna, could cause damage to the transmitter.

Setting Dynamike

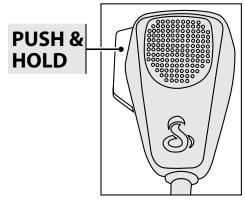
Setting Dynamike

This controls the microphone sensitivity (outgoing audio level).



• Initially, set fully © clockwise so that maximum voice volume is available. Dynamike may have to be reduced in some conditions.

Transmit

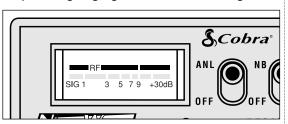


• Push and hold mic button to transmit.

Transmitter is now activated. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. Release to receive.

RF Meter

This meter swings proportionately to the RF output (outgoing signal) while transmitting.



Transmit

RF Meter

External Speaker

Note

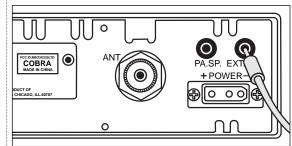
The external speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts. When the external speaker is plugged in, the internal speaker is automatically disconnected.

Note

Cobra external speakers are rated at 15 watts.

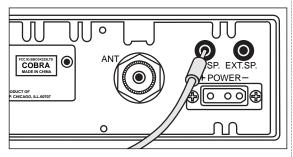
External Speaker

The external Speaker jack is used for remote receiver monitoring.

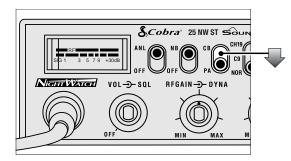


• Connect an external speaker to the external speaker jack on the rear panel.

PA (Public Address)



• Connect an external PA speaker to the PA jack on the rear panel.



2 Set CB PA switch to PA position.

PA (Public Address)

Note

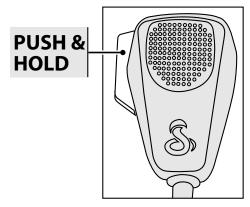
Speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts.

Note

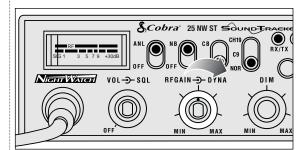
The speaker should be directed away from the microphone to prevent acoustic feedback.

Note

Activity on the CB channel will be heard through the PA speaker. Adjust Volume Control for normal listening level.

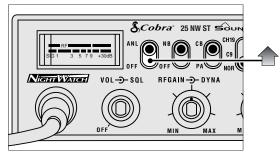


3 Push and hold microphone button and speak in a normal voice. Your voice will sound on the PA speaker.



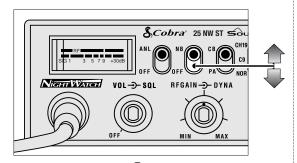
• Adjust PA speaker volume with the Dynamike control.

ANL (Automatic Noise Limiter) Switch



• When *switched* to ANL the Automatic Noise Limiter is activated. This helps reduce noise created by the vehicle's electronics.

NB, OFF (Noise Blanker) Switch



When *switched* to NB position the RF Noise Blanker is activated, providing increased noise filtration.

When switched to OFF position Noise Blanking Filtration will be turned off.

ANL (Automatic Noise Limiter) Switch

NB, OFF (Noise Blanker) Switch

Note

The RF noise blanker is very effective in reducing repetitive noises such as ignition interference.

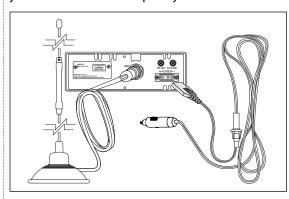
Temporary Mobile Set-Up

Home And Office Set-Up

Temporary Mobile Set-Up

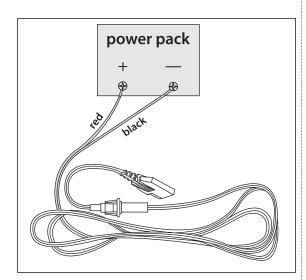
Temporary Mobile Operation

For temporary mobile operation you may want to purchase an optional cigarette lighter adapter from your COBRA dealer. This adapter and a magnetic mount antenna allow you to quickly "install" your transceiver for temporary use.



Base Station Operation (From 120V AC House Current)

To operate your transceiver from home or office you will need a 13.8 volt DC Power Pack rated at a minimum of 2 amps, and a properly installed base station antenna.



• Simply connect the red (+) and black (-) leads of the transceiver to the corresponding terminals of the power pack.

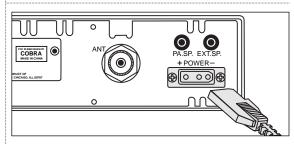
Base Station Operation (From 120V AC House Current)

Warning!

Do not attempt to operate this transceiver by connecting it directly to 120 vac.

Home And Office Set-Up

How Your CB Can Serve You



- 2 Plug power cable into back of unit marked "Power". Be sure to observe polarity markings.
- **3** Connect properly installed and matched base station antenna.

- Warn of traffic problems
- Provide weather and road data
- Provide help in event of an emergency
- Provide direct contact with home or office
- Assist police by reporting erratic drivers
- Get "local information" to find destination
- · Communicate with family and friends
- Suggest spots to eat and sleep
- Keep you alert while traveling

A Few Rules You Should Know

- A. Conversations cannot last more than 5 minutes with another station. A one minute break is required to let others use the channel.
- B. You cannot blast others off the air by use of illegally amplified transmitters or illegally high antennas.
- C. You cannot use CB to promote illegal activities.
- D. Profanity is not allowed.
- E. You may not transmit music with a CB.
- F. Selling of merchandise and/or services is prohibited.

1. Set to channel 9 for emergencies Be sure antenna is properly connected.

2. CB Distress Data

When transmitting an emergency, you should request a "REACT BASE" and provide the CB distress data (called **CLIP**):

C all Sign *Identify yourself.*

L ocation *Be exact.*

I njuries Number. Type. Trapped?

P roblem *Give details and help needed.*

Transmit **CLIP** repeatedly so any monitor can assist.

A Few Rules You Should Know

Channel 9 Emergency Messages

Note

If no response on channel 9, try channels 19 or 14.

How Your CB Can Serve You

How Your CB Can Serve You

The IC/FCC gives these examples of permitted and prohibited messages for channel 9. These are only guidelines and not all-inclusive:

Permitted	Example Message		
Yes	"Tornado sighted six miles north of town."		
No	"Post number 10. No tornado sighted."		
Yes	"Out of gas on Rte 15 at mile marker 211."		
No	"Out of gas in my driveway."		
Yes	"Four car accident on 401 at Exit 11. Send police and ambulance."		
No	"Traffic moving smoothly on 401."		
Yes	"Weather Bureau has issued thunderstorm warning. Bring sailboat into port."		
No	"Attention motorists. Weather Bureau advises snow tomorrow will accumulate 4 to 6 cm."		
Yes	"Fire in building at 539 Main, Winnipeg."		
No	"Halloween patrol number 3. All quiet."		

CB 10-Codes

Citizen Bands have adopted the "10-CODES" for standard questions and answers. These codes provide quick and easy communication, especially in noisy areas. Following are some of the more common codes and meanings:

	•
Code	Meaning
10-1	Receiving poorly
10-2	Receiving well
10-3	Stop transmitting
10-4	OK, message received
10-5	Relay message
10-6	Busy, stand by
10-7	Out of service, leaving
10-8	In service, subject to call
10-9	Repeat message
10-10	Transmission completed standing by
10-11	Talking too rapidly
10-12	Visitors present
10-13	Advise weather/roads
10-16	Make pick up at
10-17	Urgent business
10-18	Anything for us?
10-19	Return to base
10-20	My location is
10-21	Call by phone
10-22	Report in person to
10-23	Stand by
10-24	Completed last assignment
10-25	Can you contact
10-26	Disregard last info
10-27	Moving to channel
10-28	Identify your station

CB 10-Codes

Code	Meaning	TI 601	004.054	DALCT.		
10-29	Time is up for contact	The COBRA 25 NW ST transceiver				
10-30	Does not conform to IC/FCC rules	of the most advanced AM two-wa				
10-33	Emergency traffic	a Class D station in the Citizens Raunit features advanced Phase Loc				
10-34	Trouble at this station	circuitry providing complete cove				
10-35	Confidential information	channels.				
10-36	Correct time is		Channel		Channel	
10-37	Wrecker needed at	СВ	Freq.	СВ	Freq.	
10-38	Ambulance needed	Channel	In MHz	Channel		
10-39	Message delivered					
10-41	Turn to channel	1	26.965	21	27.215	
10-42	Traffic accident at	2	26.975	22	27.225	
10-43	Traffic tie up at	3	26.985	23	27.255	
10-44	Have a message for	4 5	27.005 27.015	24 25	27.235 27.245	
10-45	All units within range please report	3	27.015	23	27.243	
10-50	Break channel	6	27.025	26	27.265	
10-60	What is next message number?	7	27.035	27	27.275	
10-62	Unable to copy. Use phone	8	27.055	28	27.285	
10-63	Net directed to	9	27.065	29	27.295	
10-64	Net clear	10	27.075	30	27.305	
10-65	Awaiting your next message/assignment					
10-67	All units comply	11	27.085	31	27.315	
10-70	Fire at	12	27.105	32	27.325	
10-71	Proceed, transmission in sequence	13	27.115	33	27.335	
10-77	Negative contact	14 15	27.125		27.345	
10-81	Reserve hotel room for	15	27.135	35	27.355	
10-82	Reserve room for	16	27.155	36	27.365	
10-85	My address is	17	27.165	37	27.375	
10-91	Talk closer to mic	18	27.175	38	27.385	
10-93	Check my frequency on this channel	19	27.185	39	27.395	
10-94	Give me a long count	20	27.205	40	27.405	
10-99	Mission completed, all units secure					
10-200	Police needed at					

er represents one way radios used as Radio Service. This ock Loop (PLL) verage of all 40 CB

Limited Two Year Warranty

FREQUENCY RANGE CB - 26.965 TO 27.405 MHZ

FREQUENCY TOLERANCE 0.005 %

FREQUENCY CONTROL PLL (PHASE LOCK LOOP) SYNTHESIZER

OPERATING TEMPERATURE

RANGE-30° C TO + 50° C

MICROPHONE PLUG-IN DYNAMIC

CURRENT DRAIN TRANSMIT: AM FULL MOD., 1.5A (MAXIMUM)

RECEIVE: SQUELCHED, 0.3A;

FULL AUDIO OUTPUT, 1.2A (NOMINAL)

WEIGHT4 LBS. ANTENNA CONNECTORUHF; SO-239

METERILLUMINATED; INDICATES RELATIVE POWER OUTPUT AND RECEIVED

SIGNAL STRENGTH

TRANSMITTER

POWER OUTPUT4 WATTS

MODULATIONAM (AMPLITUDE MODULATION)

FREQUENCY RESPONSE300 TO 3000 HZ

OUTPUT IMPEDANCE50 OHMS, UNBALANCED

SENSITIVITY LESS THAN 1 $\,\mu V$ FOR 10dB (S+N) /N

IF FREQUENCIESDOUBLE CONVERSION: 1ST: 10.695 MHZ

2ND: 455 KHZ

AUTOMATIC GAIN CONTROL (AGC) .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000

MICROVOLTS

RF GAIN RANGE40 dB

SQUELCHADJUSTABLE; THRESHOLD LESS THAN 1µV

FREQUENCY RESPONSE300 TO 3000 HZ

DISTORTIONLESS THAN 7% @3 WATTS @ 1000 HZ

BUILT-IN SPEAKER8 OHMS, 5W

EXTERNAL SPEAKER (NOT SUPPLIED) 8 OHMS: DISABLES INTERNAL SPEAKER

WHEN CONNECTED

PA SYSTEM

POWER OUTPUT 4 WATTS INTO EXTERNAL SPEAKER

EXTERNAL SPEAKER FOR PA 8 OHMS, 4 W. MIN.

(NOT SUPPLIED)THE PA SPEAKER ALSO MONITORS THE

RECEIVER; SEPARATE JACK PROVIDED

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

COBRA ELECTRONICS CORPORATION warrants that its COBRA CB Radios, and the component parts thereof, will be free of defects in workmanship and materials for period of two (2) years from the date of first consumer purchase.

Optional Accessories

Optional Accessories



21" Base Loaded Magnet Mount AntennaHG A1000

\$39.95



38" Base Loaded Magnet Mount Antenna

HG A1500 \$59.95

Applicable taxes apply.
Shipping and handling: \$6.00



4 Pin Premium Noise-Cancelling Microphone Wood Grain

HG M84W

\$89.95



Dynamic External Speaker

HG S100

\$34.95

Noise Canceling External Speaker

HG S300

\$39.95



4 Pin Replacement Dynamic Microphone

HG M73

\$24.95



Power Microphone

HG M75

\$34.95



4 Pin Noise Canceling Microphone

HG M77

\$39.95

You Can Find These Fine Accessories At Your Local Cobra® CB Dealer

If you wish, you can order directly from Cobra®. Send order, your name, address and method of payment.

Order by phone:

Call 514.683.1779 x 2264

Order by fax:

514.683.5307

Order by email:

Send to cobraextras@avs.ca

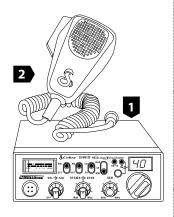
S_{Cobra®} 25 NW ST

The CB Story

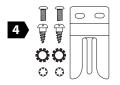
Operating Instructions for your Cobra 25 NW ST

CB Radio











The Citizens Band lies between the shortwave broadcast and 10-meter Amateur radio bands, and was established by law in 1949. The Class D two-way communications service was opened in 1959. (CB also includes a Class A citizens band and Class C remote control frequencies.)

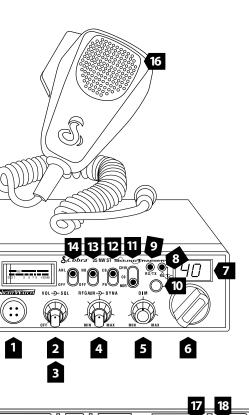
IC/FCC Regulations

IC/FCC regulations permit only "transmissions" (one party to another) rather than "broadcasts" (to a wide audience). Thus, advertising is not allowed on CB Channels because that is "broadcasting."

What's Included with Your 25 NW ST

- 1. CB transceiver
- 6. DC power cord
- 2 Microphone
- 3. Transceiver bracket
- 4. Microphone bracket
- 5 Operating Manual

Our Thanks to You



⊕000€

Thank you for purchasing the Cobra 25 NW ST CB Radio. Properly used, this Cobra product will give you many years of reliable service.

SoundTracker™

"Cuts noise coming in...strengthens signals going out."

This Patent pending technology dramatically improves transmission and reception of CB signals.

The revolutionary SoundTracker™ System reconfigures the transmission signal which allows it to be transferred more efficiently through cluttered airwaves.

At the same time, it significantly reduces the amount of static on all incoming CB signals.

The end result is a cleaner, clearer sounding reception of signals and a more powerful transmission which dramatically improves CB communications.